Journal of Turbomachinery

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, D indicates Discussion, and E indicates Errata.

Abhari, R. S. — (see Behr, T.) **128**, 11–22
Abhari, Reza S. — (see Bernsdorf, Stefan) **128**, 141–149
Aksit, Mahmut F. — (see Dogu, Yahya) **128**, 367–378
_____ (see Dogu, Yahya) **128**, 379–389
Ames, F. E., and Dvorak, L. A. — Turbulent Transport in Pin Fin Arrays: Experimental Data and Predictions. **128**, 71–81
Andrews, G. E., Hussain, R. A. A. Abdul, and Mkpadi, M. C. — Enhanced Impingement Heat Transfer: The Influence of Impingement X/D for Interrupted Rib Obstacles (Rectangular Pin Fins). **128**, 321–331
Arima, Toshiyuki — (see Sonoda, Toyotaka) **128**, 650–657
Arnone, Andrea — (see Bonaiuti, Duccio) **128**, 786–797
Arts, Tony — (see Key, Nicole L.) **128**, 213–220
Ayers, J. P., Feiner, D. M., and Griffin, J. H. — A Reduced-Order Model for Transient Analysis of Bladed Disk Forced Response. **128**, 466–473

Baldassarre, Leonardo — (see Bonaiuti, Duccio) **128**, 786–797
Barigozzi, Giovanna, Benzoni, Giuseppe, Franchini, Giuseppe, and Perdichizzi, Antonio — Fan-Shaped Hole Effects on the Aero-Thermal Performance of a Film-Cooled Endwall. **128**, 43–52
Barton, M. T., Mansour, M. L., Liu, J. S., and Palmer, D. L. — Numerical Optimization of a Vaned Shroud Design for Increased Operability Margin in Modern Centrifugal Compressors. **128**, 627–631
Bauer, H. -J. — (see Martini, P.) **128**, 292–299
Bauer, H.-J. — (see Martini, P.) **128**, 196–205
Becz, Sandor — (see Holley, Brian M.) **128**, 232–239
Behr, T., Porreca, L., Mokulys, T., Kalfas, A. I., and Abhari, R. S. — Multistage Aspects and Unsteady Effects of Stator and Rotor Clocking in an Axial Turbine With Low Aspect Ratio Blading. **128**, 11–22
Benner, M. W., Sjolander, S. A., and Moustapha, S. H. — An Empirical Prediction Method for Secondary Losses in Turbines—Part I: A New Loss Breakdown Scheme and Penetration Depth Correlation. **128**, 273–280
_____, **Sjolander, S. A., and Moustapha, S. H.** — An Empirical Prediction Method For Secondary Losses In Turbines—Part II: A New Secondary Loss Correlation. **128**, 281–291
Benzoni, Giuseppe — (see Barigozzi, Giovanna) **128**, 43–52
Bernsdorf, Stefan, Rose, Martin G., and Abhari, Reza S. — Modeling of Film Cooling—Part I: Experimental Study of Flow Structure. **128**, 141–149
Bogard, David G. — (see Rutledge, James L.) **128**, 547–554
Bohl, Douglas G., and Volino, Ralph J. — Experiments With Three-Dimensional Passive Flow Control Devices on Low-Pressure Turbine Airfoils. **128**, 251–260
Bohn, Dieter — (see Kusterer, Karsten) **128**, 572–578
Bonaiuti, Duccio, Arnone, Andrea, Ermini, Mirco, and Baldassarre, Leonardo — Analysis and Optimization of Transonic Centrifugal Compressor Impellers Using the Design of Experiments Technique. **128**, 786–797
Burdisso, Ricardo — (see Scribben, Angie Rabe) **128**, 332–339

Camatti, Massimo — (see Smalley, Anthony J.) **128**, 717–724
Car, David — (see Gorrell, Steven E.) **128**, 616–626
Cardwell, N. D., Sundaram, N., and Thole, K. A. — Effect of Midpassage Gap, Endwall Misalignment, and Roughness on Endwall Film-Cooling. **128**, 62–70
Carscallen, W. E. — (see Gostelow, J. P.) **128**, 528–535
Carter, Jeremy J. — (see Smalley, Anthony J.) **128**, 717–724
Castanier, Matthew P. — (see Lim, Sang-Ho) **128**, 206–210(TB)
Chen, Fu — (see Song, Yanping) **128**, 357–366
Chen, Jingyi — (see Lin, Feng) **128**, 130–140
Chen, Liming — (see Qin, Fei) **128**, 512–516
Cherry, D. G. — (see Prakash, C.) **128**, 639–642
Chew, John W. — (see Lelli, Diego) **128**, 188–195
Childs, Dara W. — (see Smalley, Anthony J.) **128**, 717–724
Cho, Hyung Hee — (see Rhee, Dong-Ho) **128**, 96–109
_____ (see Rhee, Dong-Ho) **128**, 110–119
Chong, T. P., and Zhong, S. — On the Momentum and Thermal Structures of Turbulent Spots in a Favorable Pressure Gradient. **128**, 689–698
Chow, Yi-Chih — (see Soranna, Francesco) **128**, 82–95
Chyu, M. K. — (see Uysal, U.) **128**, 158–165
_____ (see Cunha, F. J.) **128**, 240–250
_____ (see Cunha, F. J.) **128**, 738–746
Clark, John P., Polanka, Marc D., Meininger, Matthew, and Praisner, Thomas J. — Validation of Heat-Flux Predictions on the Outer Air Seal of a Transonic Turbine Blade. **128**, 589–595(TB)
Colban, W., Gratton, A., Thole, K. A., and Haendler, M. — Heat Transfer and Film-Cooling Measurements on a Stator Vane With Fan-Shaped Cooling Holes. **128**, 53–61
Cooper, Paul — (see Lelli, Diego) **128**, 188–195
Coulthard, Sarah M., Volino, Ralph J., and Flack, Karen A. — Effect of Unheated Starting Lengths on Film Cooling Experiments. **128**, 579–588
Cumpsty, N. A., and Horlock, J. H. — Averaging Nonuniform Flow for a Purpose. **128**, 120–129
Cunha, F. J. — (see Uysal, U.) **128**, 158–165
_____, **Dahmer, M. T., and Chyu, M. K.** — Thermal-Mechanical Life Prediction System for Anisotropic Turbine Components. **128**, 240–250
_____, **Dahmer, M. T., and Chyu, M. K.** — Analysis of Airfoil Trailing Edge Heat Transfer and Its Significance in Thermal-Mechanical Design and Durability. **128**, 738–746
Curtis, Eric — (see Pullan, Graham) **128**, 492–499

Dahmer, M. T. — (see Cunha, F. J.) **128**, 240–250
_____ (see Cunha, F. J.) **128**, 738–746
Dawes, W. N. — (see Newton, P. J.) **128**, 300–309
Denton, John — (see Pullan, Graham) **128**, 492–499
Denton, John D. — (see Kachel, Carmen E.) **128**, 261–272
_____ (see Rosic, Budimir) **128**, 699–707
Dickmann, Hans-Peter, Secall Wimmel, Thomas, Szwedowicz, Jaroslaw, Filsinger, Dietmar, and Roduner, Christian H. — Unsteady Flow in a Turbocharger Centrifugal Compressor: Three-Dimensional Computational Fluid Dynamics Simulation and Numerical and Experimental Analysis of Impeller Blade Vibration.

Journal of Turbomachinery

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, D indicates Discussion, and E indicates Errata.

Abhari, R. S. — (see Behr, T.) **128**, 11–22
Abhari, Reza S. — (see Bernsdorf, Stefan) **128**, 141–149
Aksit, Mahmut F. — (see Dogu, Yahya) **128**, 367–378
_____ (see Dogu, Yahya) **128**, 379–389
Ames, F. E., and Dvorak, L. A. — Turbulent Transport in Pin Fin Arrays: Experimental Data and Predictions. **128**, 71–81
Andrews, G. E., Hussain, R. A. A. Abdul, and Mkpadi, M. C. — Enhanced Impingement Heat Transfer: The Influence of Impingement X/D for Interrupted Rib Obstacles (Rectangular Pin Fins). **128**, 321–331
Arima, Toshiyuki — (see Sonoda, Toyotaka) **128**, 650–657
Arnone, Andrea — (see Bonaiuti, Duccio) **128**, 786–797
Arts, Tony — (see Key, Nicole L.) **128**, 213–220
Ayers, J. P., Feiner, D. M., and Griffin, J. H. — A Reduced-Order Model for Transient Analysis of Bladed Disk Forced Response. **128**, 466–473

Baldassarre, Leonardo — (see Bonaiuti, Duccio) **128**, 786–797
Barigozzi, Giovanna, Benzoni, Giuseppe, Franchini, Giuseppe, and Perdichizzi, Antonio — Fan-Shaped Hole Effects on the Aero-Thermal Performance of a Film-Cooled Endwall. **128**, 43–52
Barton, M. T., Mansour, M. L., Liu, J. S., and Palmer, D. L. — Numerical Optimization of a Vaned Shroud Design for Increased Operability Margin in Modern Centrifugal Compressors. **128**, 627–631
Bauer, H. -J. — (see Martini, P.) **128**, 292–299
Bauer, H.-J. — (see Martini, P.) **128**, 196–205
Becz, Sandor — (see Holley, Brian M.) **128**, 232–239
Behr, T., Porreca, L., Mokulys, T., Kalfas, A. I., and Abhari, R. S. — Multistage Aspects and Unsteady Effects of Stator and Rotor Clocking in an Axial Turbine With Low Aspect Ratio Blading. **128**, 11–22
Benner, M. W., Sjolander, S. A., and Moustapha, S. H. — An Empirical Prediction Method for Secondary Losses in Turbines—Part I: A New Loss Breakdown Scheme and Penetration Depth Correlation. **128**, 273–280
_____, **Sjolander, S. A., and Moustapha, S. H.** — An Empirical Prediction Method For Secondary Losses In Turbines—Part II: A New Secondary Loss Correlation. **128**, 281–291
Benzoni, Giuseppe — (see Barigozzi, Giovanna) **128**, 43–52
Bernsdorf, Stefan, Rose, Martin G., and Abhari, Reza S. — Modeling of Film Cooling—Part I: Experimental Study of Flow Structure. **128**, 141–149
Bogard, David G. — (see Rutledge, James L.) **128**, 547–554
Bohl, Douglas G., and Volino, Ralph J. — Experiments With Three-Dimensional Passive Flow Control Devices on Low-Pressure Turbine Airfoils. **128**, 251–260
Bohn, Dieter — (see Kusterer, Karsten) **128**, 572–578
Bonaiuti, Duccio, Arnone, Andrea, Ermini, Mirco, and Baldassarre, Leonardo — Analysis and Optimization of Transonic Centrifugal Compressor Impellers Using the Design of Experiments Technique. **128**, 786–797
Burdisso, Ricardo — (see Scribben, Angie Rabe) **128**, 332–339

Camatti, Massimo — (see Smalley, Anthony J.) **128**, 717–724
Car, David — (see Gorrell, Steven E.) **128**, 616–626
Cardwell, N. D., Sundaram, N., and Thole, K. A. — Effect of Midpassage Gap, Endwall Misalignment, and Roughness on Endwall Film-Cooling. **128**, 62–70
Carscallen, W. E. — (see Gostelow, J. P.) **128**, 528–535
Carter, Jeremy J. — (see Smalley, Anthony J.) **128**, 717–724
Castanier, Matthew P. — (see Lim, Sang-Ho) **128**, 206–210(TB)
Chen, Fu — (see Song, Yanping) **128**, 357–366
Chen, Jingyi — (see Lin, Feng) **128**, 130–140
Chen, Liming — (see Qin, Fei) **128**, 512–516
Cherry, D. G. — (see Prakash, C.) **128**, 639–642
Chew, John W. — (see Lelli, Diego) **128**, 188–195
Childs, Dara W. — (see Smalley, Anthony J.) **128**, 717–724
Cho, Hyung Hee — (see Rhee, Dong-Ho) **128**, 96–109
_____ (see Rhee, Dong-Ho) **128**, 110–119
Chong, T. P., and Zhong, S. — On the Momentum and Thermal Structures of Turbulent Spots in a Favorable Pressure Gradient. **128**, 689–698
Chow, Yi-Chih — (see Soranna, Francesco) **128**, 82–95
Chyu, M. K. — (see Uysal, U.) **128**, 158–165
_____ (see Cunha, F. J.) **128**, 240–250
_____ (see Cunha, F. J.) **128**, 738–746
Clark, John P., Polanka, Marc D., Meininger, Matthew, and Praisner, Thomas J. — Validation of Heat-Flux Predictions on the Outer Air Seal of a Transonic Turbine Blade. **128**, 589–595(TB)
Colban, W., Gratton, A., Thole, K. A., and Haendler, M. — Heat Transfer and Film-Cooling Measurements on a Stator Vane With Fan-Shaped Cooling Holes. **128**, 53–61
Cooper, Paul — (see Lelli, Diego) **128**, 188–195
Coulthard, Sarah M., Volino, Ralph J., and Flack, Karen A. — Effect of Unheated Starting Lengths on Film Cooling Experiments. **128**, 579–588
Cumpsty, N. A., and Horlock, J. H. — Averaging Nonuniform Flow for a Purpose. **128**, 120–129
Cunha, F. J. — (see Uysal, U.) **128**, 158–165
_____, **Dahmer, M. T., and Chyu, M. K.** — Thermal-Mechanical Life Prediction System for Anisotropic Turbine Components. **128**, 240–250
_____, **Dahmer, M. T., and Chyu, M. K.** — Analysis of Airfoil Trailing Edge Heat Transfer and Its Significance in Thermal-Mechanical Design and Durability. **128**, 738–746
Curtis, Eric — (see Pullan, Graham) **128**, 492–499

Dahmer, M. T. — (see Cunha, F. J.) **128**, 240–250
_____ (see Cunha, F. J.) **128**, 738–746
Dawes, W. N. — (see Newton, P. J.) **128**, 300–309
Denton, John — (see Pullan, Graham) **128**, 492–499
Denton, John D. — (see Kachel, Carmen E.) **128**, 261–272
_____ (see Rosic, Budimir) **128**, 699–707
Dickmann, Hans-Peter, Secall Wimmel, Thomas, Szwedowicz, Jaroslaw, Filsinger, Dietmar, and Roduner, Christian H. — Unsteady Flow in a Turbocharger Centrifugal Compressor: Three-Dimensional Computational Fluid Dynamics Simulation and Numerical and Experimental Analysis of Impeller Blade Vibration.

128, 455–465
Dogu, Yahya, and Aksit, Mahmut F. — Effects of Geometry on Brush Seal Pressure and Flow Fields—Part I: Front Plate Configurations. **128**, 367–378
_____, **and Aksit, Mahmut F.** — Effects of Geometry on Brush Seal Pressure and Flow Fields—Part II: Backing Plate Configurations. **128**, 379–389
Doughty, R. — (see Prakash, C.) **128**, 639–642
Dvorak, L. A. — (see Ames, F. E.) **128**, 71–81

Ekkad, Srinath V., Ou, Shichuan, and Rivir, Richard B. — Effect of Jet Pulsation and Duty Cycle on Film Cooling From a Single Jet on a Leading Edge Model. **128**, 564–571
Ermini, Mirco — (see Bonaiuti, Duccio) **128**, 786–797
Ertas, B., Gamal, A., and Vance, J. — Rotordynamic Force Coefficients of Pocket Damper Seals. **128**, 725–737
Estevadeordal, Jordi — (see Gorrell, Steven E.) **128**, 616–626
Evans, Neal D. — (see Maziasz, Philip J.) **128**, 814–819
Ewins, D. J. — (see Petrov, E. P.) **128**, 403–410

Feiner, D. M. — (see Ayers, J. P.) **128**, 466–473
Filsinger, Dietmar — (see Dickmann, Hans-Peter) **128**, 455–465
Flack, Karen A. — (see Coulthard, Sarah M.) **128**, 579–588
Flohr, Peter — (see Paschereit, Christian Oliver) **128**, 679–688
Franchini, Giuseppe — (see Barigozzi, Giovanna) **128**, 43–52
Fujita, Hideomi — (see Nakayama, Hiroshi) **128**, 772–785

Gamal, A. — (see Ertas, B.) **128**, 725–737
Geron, Marco — (see Rona, Aldo) **128**, 23–34
Gier, J. — (see Malzacher, F. J.) **128**, 643–649
Giess, P.-A. — (see Sonoda, Toyotaka) **128**, 650–657
Goldstein, R. J. — (see Han, S.) **128**, 798–813
Gorrell, Steven E., Car, David, Puterbaugh, Steven L., Estevadeordal, Jordi, and Okiishi, Theodore H. — An Investigation of Wake-Shock Interactions in a Transonic Compressor With Digital Particle Image Velocimetry and Time-Accurate Computational Fluid Dynamics. **128**, 616–626
Gostelow, J. P., Platzer, M. F., and Carscallen, W. E. — On Vortex Formation in the Wake Flows of Transonic Turbine Blades and Oscillating Airfoils. **128**, 528–535
Göttlich, E., Woisetschläger, J., Pieringer, P., Hampel, B., and Heitmeir, F. — Investigation of Vortex Shedding and Wake-Wake Interaction in a Transonic Turbine Stage Using Laser-Doppler-Velocimetry and Particle-Image-Velocimetry. **128**, 178–187
Gratton, A. — (see Colban, W.) **128**, 53–61
Griffin, J. H. — (see Ayers, J. P.) **128**, 466–473
Gutmark, Ephraim J. — (see Paschereit, Christian Oliver) **128**, 679–688

Haendler, M. — (see Colban, W.) **128**, 53–61
Hagedorn, Torsten — (see Kusterer, Karsten) **128**, 572–578
Hampel, B. — (see Göttlich, E.) **128**, 178–187
Han, S., and Goldstein, R. J. — Influence of Blade Leading Edge Geometry on Turbine Endwall Heat (Mass) Transfer. **128**, 798–813
Hannis, J. — (see Newton, P. J.) **128**, 300–309
Harvey, Neil — (see Zhang, Xue Feng) **128**, 517–527
Heitmeir, F. — (see Göttlich, E.) **128**, 178–187
Henderson, Alan D., Walker, Gregory J., and Hughes, Jeremy D. — The Influence of Turbulence on Wake Dispersion and Blade Row Interaction in an Axial Compressor. **128**, 150–157
Hirota, Masafumi — (see Nakayama, Hiroshi) **128**, 772–785
Hodson, H. P. — (see Newton, P. J.) **128**, 300–309
Hodson, Howard — (see Zhang, Xue Feng) **128**, 517–527
Holley, Brian M., Becz, Sandor, and Langston, Lee S. — Measurement and Calculation of Turbine Cascade Endwall Pressure and Shear Stress. **128**, 232–239
Hollingsworth, Justin R. — (see Smalley, Anthony J.) **128**, 717–724
Horlock, J. H. — (see Cumpsty, N. A.) **128**, 120–129
_____ (see Torbidoni, Leonardo) **128**, 555–563
_____ (see Young, J. B.) **128**, 658–667
Huang, P. G. — (see Menter, F. R.) **128**, 413–422
_____ (see Langtry, R. B.) **128**, 423–434
Hughes, Jeremy D. — (see Henderson, Alan D.) **128**, 150–157
Hussain, R. A. A. Abdul — (see Andrews, G. E.) **128**, 321–331
Hwang, Y. Sian — (see Liou, Tong-Miin) **128**, 340–348

Kachel, Carmen E., and Denton, John D. — Experimental and Numerical Investigation of the Unsteady Surface Pressure in a Three-Stage Model of an Axial High Pressure Turbine. **128**, 261–272
Kalfas, A. I. — (see Behr, T.) **128**, 11–22
Katz, Joseph — (see Soranna, Francesco) **128**, 82–95
Kersken, Hans-Peter — (see Yang, Hong) **128**, 390–402
Key, Nicole L., and Arts, Tony — Comparison of Turbine Tip Leakage Flow for Flat Tip and Squealer Tip Geometries at High-Speed Conditions. **128**, 213–220
Khanicheh, A. — (see Taslim, M. E.) **128**, 310–320
Koide, Yusuke — (see Nakayama, Hiroshi) **128**, 772–785
Kost, Friedrich — (see Sonoda, Toyotaka) **128**, 650–657
Krishnababu, S. K. — (see Newton, P. J.) **128**, 300–309
Kusterer, Karsten, Hagedorn, Torsten, Bohn, Dieter, Sugimoto, Takao, and Tanaka, Ryozo — Improvement of a Film-Cooled Blade by Application of the Conjugate Calculation Technique. **128**, 572–578

Langston, Lee S. — (see Holley, Brian M.) **128**, 232–239
Langtry, R. B. — (see Menter, F. R.) **128**, 413–422
_____, **Menter, F. R., Likki, S. R., Suzen, Y. B., Huang, P. G., and Völker, S.** — A Correlation-Based Transition Model Using Local Variables—Part II: Test Cases and Industrial Applications. **128**, 423–434
Lara-Curzio, Edgar — (see Maziasz, Philip J.) **128**, 814–819
Lee, C. P. — (see Prakash, C.) **128**, 639–642
Lelli, Diego, Chew, John W., and Cooper, Paul — Combined Three-Dimensional Fluid Dynamics and Mechanical Modeling of Brush Seals. **128**, 188–195
Leroy, P. — (see Zoppé, B.) **128**, 500–511
Li, Meilin — (see Lin, Feng) **128**, 130–140
Li, P.-W. — (see Uysal, U.) **128**, 158–165
Li, Yi-Chen — (see Liou, Tong-Miin) **128**, 340–348
Li, Ying — (see Qin, Fei) **128**, 512–516
Ligrani, Phillip M. — (see Zhang, Qiang) **128**, 536–546
Likki, S. R. — (see Menter, F. R.) **128**, 413–422
_____ (see Langtry, R. B.) **128**, 423–434
Lim, Sang-Ho, Pierre, Christophe, and Castanier, Matthew P. — Predicting Blade Stress Levels Directly From Reduced-Order Vibration Models of Mistuned Bladed Disks. **128**, 206–210(TB)
Lin, Feng, Li, Meilin, and Chen, Jingyi — Long-to-Short Length-Scale Transition: A Stall Inception Phenomenon in an Axial Compressor With Inlet Distortion. **128**, 130–140
Liou, Tong-Miin, Hwang, Y. Sian, and Li, Yi-Chen — Flowfield and Pressure Measurements in a Rotating Two-Pass Duct With Staggered Rounded Ribs Skewed 45 Degrees to the Flow. **128**, 340–348
Lippl, F. — (see Malzacher, F. J.) **128**, 643–649
Liu, J. S. — (see Barton, M. T.) **128**, 627–631
Lock, G. D. — (see Newton, P. J.) **128**, 300–309

Maitre, T. — (see Zoppé, B.) **128**, 500–511
Malzacher, F. J., Gier, J., and Lippl, F. — Aerodesign and Testing of an Aeromechanically Highly Loaded LP Turbine. **128**, 643–649
Mansour, M. L. — (see Barton, M. T.) **128**, 627–631
Martini, P., Schulz, A., and Bauer, H.-J. — Film Cooling Effectiveness and Heat Transfer on the Trailing Edge Cutback of Gas Turbine Airfoils With Various Internal Cooling Designs. **128**, 196–205
____, **Schulz, A., Bauer, H. -J., and Whitney, C. F.** — Detached Eddy Simulation of Film Cooling Performance on the Trailing Edge Cutback of Gas Turbine Airfoils. **128**, 292–299
Matsunuma, Takayuki — Effects of Reynolds Number and Freestream Turbulence on Turbine Tip Clearance Flow. **128**, 166–177
Maziasz, Philip J., Shingledecker, John P., Pint, Bruce A., Evans, Neal D., Yamamoto, Yukinori, More, Karren, and Lara-Curzio, Edgar — Overview of Creep Strength and Oxidation of Heat-Resistant Alloy Sheets and Foils for Compact Heat Exchangers. **128**, 814–819
Meininger, Matthew — (see Clark, John P.) **128**, 589–595(TB)
Menter, F. R., Langtry, R. B., Likki, S. R., Suzen, Y. B., Huang, P. G., and Völker, S. — A Correlation-Based Transition Model Using Local Variables—Part I: Model Formulation. **128**, 413–422
____ (see Langtry, R. B.) **128**, 423–434
Mkpadi, M. C. — (see Andrews, G. E.) **128**, 321–331
Mokulys, T. — (see Behr, T.) **128**, 11–22
More, Karren — (see Maziasz, Philip J.) **128**, 814–819
Moustapha, S. H. — (see Benner, M. W.) **128**, 273–280
____ (see Benner, M. W.) **128**, 281–291

Nakayama, Hiroshi, Hirota, Masafumi, Fujita, Hideomi, Yamada, Takeshi, and Koide, Yusuke — Fluid Flow and Heat Transfer in Two-Pass Smooth Rectangular Channels With Different Turn Clearances. **128**, 772–785
Newton, P. J., Lock, G. D., Krishnababu, S. K., Hodson, H. P., Dawes, W. N., Hannis, J., and Whitney, C. — Heat Transfer and Aerodynamics of Turbine Blade Tips in a Linear Cascade. **128**, 300–309
Ng, Wing — (see Scribben, Angie Rabe) **128**, 332–339
Ng, Wing F. — (see Song, Bo) **128**, 435–443
Niehuis, Reinhard — (see Thermann, Hans) **128**, 474–483
Northall, John D. — The Influence of Variable Gas Properties on Turbomachinery Computational Fluid Dynamics. **128**, 632–638
Nuernberger, Dirk — (see Yang, Hong) **128**, 390–402

Okiishi, Theodore H. — (see Gorrell, Steven E.) **128**, 616–626
Olhofer, Markus — (see Sonoda, Toyotaka) **128**, 650–657
Ou, Shichuan — (see Ekkad, Srinath V.) **128**, 564–571

Paciorri, Renato — (see Rona, Aldo) **128**, 23–34
Palmer, D. L. — (see Barton, M. T.) **128**, 627–631
Paschereit, Christian Oliver, Flohr, Peter, and Gutmark, Ephraim J. — Combustion Control by Vortex Breakdown Stabilization. **128**, 679–688
Pellone, C. — (see Zoppé, B.) **128**, 500–511
Perdichizzi, Antonio — (see Barigozzi, Giovanna) **128**, 43–52
Petrov, E. P., and Ewins, D. J. — Effects of Damping and Varying Contact Area at Blade-Disk Joints in Forced Response Analysis of Bladed Disk Assemblies. **128**, 403–410
Pieringer, P. — (see Göttlich, E.) **128**, 178–187
Pierre, Christophe — (see Lim, Sang-Ho) **128**, 206–210(TB)
Pint, Bruce A. — (see Maziasz, Philip J.) **128**, 814–819
Platzer, M. F. — (see Gostelow, J. P.) **128**, 528–535
Polanka, Marc D. — (see Urbassik, Ryan M.) **128**, 35–42
____ (see Clark, John P.) **128**, 589–595(TB)
Porreca, L. — (see Behr, T.) **128**, 11–22
Praisner, T. J., and Smith, C. R. — The Dynamics of the Horseshoe Vortex and Associated Endwall Heat Transfer—Part I: Temporal Behavior. **128**, 747–754
____, **and Smith, C. R.** — The Dynamics of the Horseshoe Vortex and Associated Endwall Heat Transfer—Part II: Time-Mean Results. **128**, 755–762
Praisner, Thomas J. — (see Clark, John P.) **128**, 589–595(TB)
Prakash, C., Lee, C. P., Cherry, D. G., Doughty, R., and Wadia, A. R. — Analysis of Some Improved Blade Tip Concepts. **128**, 639–642
Pullan, Graham — Secondary Flows and Loss Caused by Blade Row Interaction in a Turbine Stage. **128**, 484–491
____, **Denton, John, and Curtis, Eric** — Improving the Performance of a Turbine With Low Aspect Ratio Stators by Aft-Loading. **128**, 492–499
____ (see Rosic, Budimir) **128**, 699–707
Puterbaugh, Steven L. — (see Gorrell, Steven E.) **128**, 616–626

Qin, Fei, Chen, Liming, Li, Ying, and Zhang, Xiaofeng — Fundamental Frequencies of Turbine Blades With Geometry Mismatch in Fir-Tree Attachments. **128**, 512–516

Rhee, Dong-Ho, and Cho, Hyung Hee — Local Heat/Mass Transfer Characteristics on a Rotating Blade With Flat Tip in Low-Speed Annular Cascade—Part I: Near-Tip Surface. **128**, 96–109
____, **and Cho, Hyung Hee** — Local Heat/Mass Transfer Characteristics on a Rotating Blade With Flat Tip in a Low-Speed Annular Cascade—Part II: Tip and Shroud. **128**, 110–119
Rivir, Richard B. — (see Ekkad, Srinath V.) **128**, 564–571
Roberts, Stephen K., and Yaras, Metin I. — Effects of Surface-Roughness Geometry on Separation-Bubble Transition. **128**, 349–356
Robertson, David — (see Rutledge, James L.) **128**, 547–554
Rodi, W. — (see Wissink, J. G.) **128**, 668–678
Roduner, Christian H. — (see Dickmann, Hans-Peter) **128**, 455–465
Rona, Aldo, Paciorri, Renato, and Geron, Marco — Design and Testing of a Transonic Linear Cascade Tunnel With Optimized Slotted Walls. **128**, 23–34
Rose, Martin G. — (see Bernsdorf, Stefan) **128**, 141–149
Rosic, Budimir, Denton, John D., and Pullan, Graham — The Importance of Shroud Leakage Modeling in Multistage Turbine Flow Calculations. **128**, 699–707
Rutledge, James L., Robertson, David, and Bogard, David G. — Degradation of Film Cooling Performance on a Turbine Vane Suction Side due to Surface Roughness. **128**, 547–554

Sarkar, S., and Voke, Peter R. — Large-Eddy Simulation of Unsteady Surface Pressure Over a Low-Pressure Turbine Blade due to Interactions of Passing Wakes and Inflexional Boundary Layer. **128**, 221–231
Schulz, A. — (see Martini, P.) **128**, 196–205
____ (see Martini, P.) **128**, 292–299
Scribben, Angie Rabe, Ng, Wing, and Burdisso, Ricardo — Effectiveness of a Serpentine Inlet Duct Flow Control Technique at Design and Off-Design Simulated Flight Conditions. **128**, 332–339
Secall Wimmel, Thomas — (see Dickmann, Hans-Peter) **128**, 455–465
Sendhoff, Bernhard — (see Sonoda, Toyotaka) **128**, 650–657
Sewall, Evan A., and Tafti, Danesh K. — Large Eddy Simulation of Flow and Heat Transfer in the 180-Deg Bend Region of a Stationary Gas Turbine Blade Ribbed Internal Cooling Duct. **128**, 763–771
Shingledecker, John P. — (see Maziasz, Philip J.) **128**, 814–819
Sjolander, S. A. — (see Benner, M. W.) **128**, 273–280
____ (see Benner, M. W.) **128**, 281–291

Smalley, Anthony J., Camatti, Massimo, Childs, Dara W., Hollingsworth, Justin R., Vannini, Giuseppe, and Carter, Jeremy J. — Dynamic Characteristics of the Diverging Taper Honeycomb-Stator Seal. **128**, 717–724
Smith, C. R. — (see Praisner, T. J.) **128**, 747–754
_____ (see Praisner, T. J.) **128**, 755–762
Snowsill, G. D., and Young, C. — Toward Defining Objective Criteria for Assessing the Adequacy of Assumed Axisymmetry and Steadiness of Flows in Rotating Cavities. **128**, 708–716
Song, Bo, and Ng, Wing F. — Performance and Flow Characteristics of an Optimized Supercritical Compressor Stator Cascade. **128**, 435–443
Song, Yanping, Chen, Fu, Yang, Jun, and Wang, Zhongqi — A Numerical Investigation of Boundary Layer Suction in Compound Lean Compressor Cascades. **128**, 357–366
Sonoda, Toyotaka, Arima, Toshiyuki, Olhofer, Markus, Sendhoff, Bernhard, Kost, Friedrich, and Giess, P.-A. — A Study of Advanced High-Loaded Transonic Turbine Airfoils. **128**, 650–657
Soranna, Francesco, Chow, Yi-Chih, Uzol, Oguz, and Katz, Joseph — The Effect of Inlet Guide Vanes Wake Impingement on the Flow Structure and Turbulence Around a Rotor Blade. **128**, 82–95
Spakovszky, Z. S. — (see Teo, C. J.) **128**, 597–605
_____ (see Teo, C. J.) **128**, 606–615
Sugimoto, Takao — (see Kusterer, Karsten) **128**, 572–578
Sundaram, N. — (see Cardwell, N. D.) **128**, 62–70
Suzen, Y. B. — (see Menter, F. R.) **128**, 413–422
_____ (see Langtry, R. B.) **128**, 423–434
Szwedowicz, Jaroslaw — (see Dickmann, Hans-Peter) **128**, 455–465

Tafti, Danesh K. — (see Sewall, Evan A.) **128**, 763–771
Tanaka, Ryozo — (see Kusterer, Karsten) **128**, 572–578
Taslim, M. E., and Khanicheh, A. — Experimental and Numerical Study of Impingement on an Airfoil Leading Edge With and Without Showerhead and Gill Film Holes. **128**, 310–320
Teo, C. J., and Spakovszky, Z. S. — Modeling and Experimental Investigation of Micro-hydrostatic Gas Thrust Bearings for Micro-turbomachines. **128**, 597–605
_____ **, and Spakovszky, Z. S.** — Analysis of Tilting Effects and Geometric Nonuniformities in Micro-hydrostatic Gas Thrust Bearings. **128**, 606–615
Thermann, Hans, and Niehuis, Reinhard — Unsteady Navier-Stokes Simulation of a Transonic Flutter Cascade Near-Stall Conditions Applying Algebraic Transition Models. **128**, 474–483
Thole, K. A. — (see Colban, W.) **128**, 53–61
_____ (see Cardwell, N. D.) **128**, 62–70
Torbidoni, Leonardo, and Horlock, J. H. — Calculation of the Expansion Through a Cooled Gas Turbine Stage. **128**, 555–563

Urbassik, Ryan M., Wolff, J. Mitch, and Polanka, Marc D. — Unsteady Aerodynamics and Interactions Between a High-Pressure Turbine Vane and Rotor. **128**, 35–42
Uysal, U., Li, P.-W., Chyu, M. K., and Cunha, F. J. — Heat Transfer on Internal Surfaces of a Duct Subjected to Impingement of a Jet Array with Varying Jet Hole-Size and Spacing. **128**, 158–165
Uzol, Oguz — (see Soranna, Francesco) **128**, 82–95

Vance, J. — (see Ertas, B.) **128**, 725–737
Vannini, Giuseppe — (see Smalley, Anthony J.) **128**, 717–724
Venturini, M. — Erratum: "Development and Experimental Validation of a Compressor Dynamic Model" [Journal of Turbomachinery, 2005, **127**(3), pp. 599–608]. **128**, 211(E)
_____ Simulation of Compressor Transient Behavior Through Recurrent Neural Network Models. **128**, 444–454
Vera, Maria — (see Zhang, Xue Feng) **128**, 517–527
Voke, Peter R. — (see Sarkar, S.) **128**, 221–231
Volino, Ralph J. — (see Bohl, Douglas G.) **128**, 251–260
_____ (see Coulthard, Sarah M.) **128**, 579–588
Völker, S. — (see Menter, F. R.) **128**, 413–422
_____ (see Langtry, R. B.) **128**, 423–434
von Backström, Theodor W. — A Unified Correlation for Slip Factor in Centrifugal Impellers. **128**, 1–10

Wadia, A. R. — (see Prakash, C.) **128**, 639–642
Walker, Gregory J. — (see Henderson, Alan D.) **128**, 150–157
Wang, Zhongqi — (see Song, Yanping) **128**, 357–366
Whitney, C. — (see Newton, P. J.) **128**, 300–309
Whitney, C. F. — (see Martini, P.) **128**, 292–299
Wissink, J. G., and Rodi, W. — Direct Numerical Simulations of Transitional Flow in Turbomachinery. **128**, 668–678
Woisetschläger, J. — (see Göttlich, E.) **128**, 178–187
Wolff, J. Mitch — (see Urbassik, Ryan M.) **128**, 35–42

Yamada, Takeshi — (see Nakayama, Hiroshi) **128**, 772–785
Yamamoto, Yukinori — (see Maziasz, Philip J.) **128**, 814–819
Yang, Hong, Nuernberger, Dirk, and Kersken, Hans-Peter — Toward Excellence in Turbomachinery Computational Fluid Dynamics: A Hybrid Structured-Unstructured Reynolds-Averaged Navier-Stokes Solver. **128**, 390–402
Yang, Jun — (see Song, Yanping) **128**, 357–366
Yaras, Metin I. — (see Roberts, Stephen K.) **128**, 349–356
Young, C. — (see Snowsill, G. D.) **128**, 708–716
Young, J. B., and Horlock, J. H. — Defining the Efficiency of a Cooled Turbine. **128**, 658–667

Zhang, Qiang, and Ligrani, Phillip M. — Aerodynamic Losses of a Cambered Turbine Vane: Influences of Surface Roughness and Freestream Turbulence Intensity. **128**, 536–546
Zhang, Xiaofeng — (see Qin, Fei) **128**, 512–516
Zhang, Xue Feng, Vera, Maria, Hodson, Howard, and Harvey, Neil — Separation and Transition Control on an Aft-Loaded Ultra-High-Lift LP Turbine Blade at Low Reynolds Numbers: Low-Speed Investigation. **128**, 517–527
Zhong, S. — (see Chong, T. P.) **128**, 689–698
Zoppé, B., Pellone, C., Maitre, T., and Leroy, P. — Flow Analysis Inside a Pelton Turbine Bucket. **128**, 500–511